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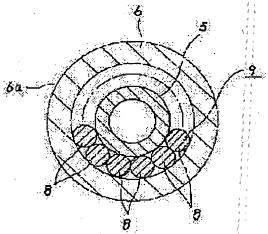
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(54) CAM FOLLOWER FOR VALVE SYSTEM IN ENGINE

(57) Abstract:

PROBLEM TO BE SOLVED: To facilitate the design of a cam follower for a valve system in an engine capable of ensuring sufficient durability by restricting the maximum value of bending stress acted on a shaft in association with rotation of a camshaft to a specialized value or less.

SOLUTION: A hollow pipe shaped shaft 5 is fixed between a pair of supporting wall parts in a hooking condition. A roller 6 is directly supported around the shaft 5, or it is rotatably supported through a radial roller bearing 9. The maximum value of bending stress acted on the shat 5 is restricted to 1.5 kgf/mm2 or less. It is thus possible to prevent the damage such as cracking from generating on the shaft 5, before a life of an engine attains the longest life (about 2,000,000 km in a traveling distance). Since the maximum value of the bending stress is restricted to a constant rate, it is possible to facilitate the design of the cam follower for the valve system in the engine having sufficient durability.



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(54) 【発明の名称】 エンジンの動弁機構用カムフォロア装置

(57) 【要約】

【課題】 カムからローラ6を介して軸5に加わるラジアル荷重に基づいて、この軸5に加わる曲げ応力に拘らず、この軸5の損傷防止を図る。

【解決手段】 上記曲げ応力の値の最大値を、15 kgf/mm² 以下に規制する。通常考えられるエンジンの寿命以前に、上記軸5 に亀裂等の損傷が発生するのを防止できる設計を、容易に行なえる。

